

Finding the Percent of a Number

Find 77% of 240.

First estimate.

$$77\% \approx 75\% = \frac{3}{4}$$

$$\frac{3}{4} \times 240 = 180$$

Use a decimal.

Change the percent to a decimal.

$$77\% = 0.77$$

Multiply.

$$0.77 \times 240 = 184.8$$

The answer 184.8 is close to the estimate 180.

Use a proportion.

Write the percent as a fraction.

$$77\% = \frac{77}{100}$$

Write the proportion and solve.

$$\frac{x}{240} = \frac{77}{100}$$

$$100x = 18,480$$

$$\frac{100x}{100} = \frac{18,480}{100}$$

$$x = 184.8$$

Find the percent of each number.

- | | | |
|---------------------|----------------------|----------------------|
| 1. 25% of 24 _____ | 2. 50% of 72 _____ | 3. 72% of 88 _____ |
| 4. 18% of 97 _____ | 5. 66% of 843 _____ | 6. 46% of 388 _____ |
| 7. 89% of 111 _____ | 8. 0.7% of 392 _____ | 9. 110% of 640 _____ |

- 10. Geometry** Ava's aquarium is 10 in. tall, 15 in. long, and 8 in. wide. The aquarium is 95% filled with water. How many cubic inches of water are in the aquarium?
- _____

- 11.** DeWayne used his music club membership card to get 15% off the cost of a CD. If the regular price of the CD was \$15.95, how much did DeWayne pay?
- _____

- 12.** Marla bought a dress priced at \$89.99. She used a 20% off coupon. How much did she pay for the dress?
- _____

- 13. Writing to Explain** Tell how you could use a proportion to find 125% of 500. Why is the solution greater than the original number?
- _____